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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,789	08/08/2006	Masayuki Hibino	41065	6369
52054 PEARNE & G	7590 10/01/200 ORDON LLP	8	EXAM	IINER
1801 EAST 97			KURR, JASC	N RICHARD
SUITE 1200 CLEVELAND	O. OH 44114-3108		ART UNIT	PAPER NUMBER
CILL VILLE II VI	, 011 1111 2100		2615	
			NOTIFICATION DATE	DELIVERY MODE
			10/01/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patdocket@pearne.com dchervenak@pearne.com

Office Action Summary

Application No.	Applicant(s)	
10/597,789	HIBINO ET AL.	
Examiner	Art Unit	
JASON R. KURR	2615	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a repty be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication
 Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- rations of reply within the set of extended period for lepty with, by statute, cause the application to become Advicement (35.0.3.C., § 13.3.Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 08 August 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-4 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 2 is/are allowed.
- 6) Claim(s) 1 and 3 is/are rejected.
- 7) Claim(s) 4 is/are objected to.
- 8) Claim(s) are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on <u>08 August 2006</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _
 - Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 - * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- Notice of Preferences Cited (170-032)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/Sb/08)
 Paper No(s)/Mail Date 8/8/06.

- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

 5) Notice of Informal Pater L Application

 5)
- 6) Other: _____.

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In lines 13-14 of claim 3, the claim discloses "being changed by said one audio mixer". The claim previously discloses in line 2 "a plurality of audio mixers" and lines 11-12 "registering one of said audio mixers as a main mixer", however does not clearly point out which mixer is the "said one audio mixer". It is unclear to the Examiner as to which audio mixer the claim is referring to in line 14, thus the claim is considered indefinite.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kubota (US 5.802.186) in view of Sparkes (US 4.993.073).

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With respect to claim 1, Kubota discloses an amplifier apparatus, comprising: first amplifying means (fig.3 #11) for amplifying an analog sound signal according to a first acoustic gain; converting means (fig.3 #14) for converting said amplified analog sound signal to a digital sound signal; second amplifying means (fig.3 #17) for amplifying, according to a second acoustic gain, said sound signal converted by said converting means; and controlling means (fig.3 #12) for obtaining a combined acoustic gain from said first and second acoustic gains, and keeping said combined acoustic gain constant by modifying said second acoustic gain in response to a change of said first acoustic gain (col.5 In.19-29).

Kubota does not disclose expressly wherein the second amplifying means amplifies a digital sound signal. The output (fig.3 "SA6") of Kubota is an analog sound signal.

Sparkes teaches a digital signal mixing apparatus comprising a plurality of input ports (fig.2 #29-33) for receiving analog input signals (fig.2 #34-38), wherein the input signals are converted to digital sound signals (col.4 In.4-18). At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the amplifier apparatus of Kubota as an input buffer to the digital audio mixer of Sparkes. In such a case, a digital output of Kubota would be required; therefor the digital/analog conversion (fig.3 #16) would not be needed. The motivation for using the amplifying apparatus of Kubota as an input amplifier to a digital audio mixer would have been to prevent unnatural variations of signal level due to a first amplification.

Allowable Subject Matter

Claim 2 is allowed.

Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fraisse (US 6,041,080) discloses a signal processing system and method for digitally mixing a plurality of analog input signals.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON R. KURR whose telephone number is (571)272-0552. The examiner can normally be reached on M-F 10:00am to 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 273-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason R Kurr/ Examiner, Art Unit 2615

/Vivian Chin/ Supervisory Patent Examiner, Art Unit 2615